

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Bob Marsh <bmarsh@hicom.net>
Subject: [929] "Benson Bashing?"
Message-ID: <3253B321.48BF@hicom.net>

Hi All,

I've been following the thread re: the "NN1G" QRP Rig and Small Wonder Labs. I just HAD to throw in a little loose change!

I had originally considered building the "NN1G" transceiver when I saw it in the ARRL Handbook. After requesting the information from the ARRL, I decided to go with a kit instead. (More on that later). I'm what you could generously call "Homebrew Challenged" (most of the stuff I tried to build up till then either didn't work or did after several "take apart - rebuild" cycles).

I decided to order the SW-40 Kit from Dave as my first homebrew transceiver. I fully expected to either replace several components, or crank up my phone bill trying to get it to work. This had NOTHING to do with the kit, it was strictly builder's inexperience. Well, somewhere along the line a "miracle" happened. I put the kit together over a weekend, and had a problem peaking the output. An Email to Dave was answered in 24 hours. After cleaning off a solder bridge in the filter section, the rig worked perfectly.

I don't know the history of the "NN1G" transceiver, but I DO know the kind of quality kit that Small Wonder Labs sells. I'll DEFINITELY buy my next kit from Dave.

Now for the usual disclaimer: "I am not now nor have I ever been an employee of SW Labs, and have no financial interest there" (Except to give them my money once in a while)

So there!

72/73 (whatever) de Bob/KB2SGM

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*****  
Bob Marsh - KB2SGM <bmarsh@hicom.net> NJ-QRP #39 QRP-L #724.  
CW, QRP, Homebrew & Boatanchors - What a Mix  
"Jeez, is it REALLY supposed to do that?"  
*****
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From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: "rohre" <rohre@arlut.utexas.edu>

Subject: [981] "W6SAI HF Antenna Handbook"

Message-ID: <n1367764374.32949@msmailgw1.arlut.utexas.edu>

Much as the E. E. looked up to "Antennas" by John Kraus as the be all, end all antenna textbook; for the ham who wants to build his own HF antennas, the \$19.95 from the ham store, [or the ham book stores], that you spend on this new book will be money well spent for a ham antenna classic. [from CQ Publishing Co.]

Bill Orr wrote regularly for the ham magazines such as "Ham Radio", and later for "CQ", and usually had interesting antenna variations or tuner circuits in his monthly, (and now occasional), columns. He earned DXCC no. 17, and WAZ no. 4 in the days before frequent DX- peditions, and store bought antennas.

I have built antennas from books by Orr ("Radio Handbook" and others) all during some 39 years, and they all worked, and worked well, which I attribute to Bill's down to earth instructions. Looks like I have no excuse to not try out 160m on a city lot, now, with the additional examples included in this easy to follow book. It is 8 1/2 X 11 inches, and thus is easier to find on the shelf than his earlier small antenna books with Stu Cowan. (Which are still excellent focused books on Yagis in one, Quads in another, etc.)

Before you throw some random wire in a tree, take a look at this book, if antennnas that work well peaks your interest.

While not all new material is in this book; yet, Bill starts over again with the basics of antennas and later, antenna matching units, and shows how to coax the most RF into the DX paths. Many practical antennas are shown in detail that you can build yourselves. He discusses some of the most interesting commercial beam matching systems, and takes the mystery out of the Clemens match, loops, beams, and dissects all versions of the G5RV. Along the way, pictures of beautiful home made antenna test and matching equipment is shown. If you want to see what a low loss tuner looks like see the Z match unit shown there.

I may have to take a few days off to study this one!

72, Stuart K5KVH rohre@arlut.utexas.edu

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996

From: "Douglas L. Datwyler" <datwyler@mail.aros.net>

Subject: [933] 73? QRP

Message-ID: <3253C725.7D13@mail.aros.net>

The same day I ask, the day it comes. Thanks to all who confirmed that the QRP issue of 73 is October 1996.

of screwdriver holes. Then slice up the pipe between each pair of holes. Each slice can then be screwed into a wooden post or other available mounting point and the ladder line is slipped in between the cut ends. Spotted this design in the Wireman book. With an 8 foot length of conduit I made over a hundred standoffs. If you are paranoid about the little bit of metal in the screw you could perhaps use glue and a golf tee instead.

One down side. If you use a circular saw to do the slicing, plan on dealing with amazing quantities of plastic "dust". The gripping power of the cut ends is a function of how wide the blade is to make that cut so I used a sabre saw for this.

Speaking of using an outside balun and short run of coax, I'm working on a "variable length balanced line tuner" (VLBLT) based on Cecil Moore's invention (Cecil is W6RCA). The idea is to switch in pieces of balanced line with lengths that go up by powers of two ahead of the balun to bring a nearly resistive load to it where a variable capacitor can then tweak the load to a non-reactive value convenient for the balun. The powers of two is nice because you can get any of a number of lengths within a range with a minimum of lines to switch and automate this with binary coding. I've found that even using manual methods I can arrange "convenient" balanced line run lengths up to a balun such that the impedance on the other end of the coax is very close to a 50 ohm resistive load. A few hours with a noise bridge or the like can really open your eyes to the importance of feedline length with nonresonant antennas. But I digress :-)

I designed the tuner around 300 ohm ladder line, which has wire spacing that matches up very well with the geometry of the relays being used. I'm hoping to maintain a reasonably balanced path through the relays. However when I tried to get more ladder line I found that the supply has dried up. I contacted 10-12 vendors in the USA and got the same story from each: the factory that made this has stopped production. Most said they didn't expect to ever have it again while a couple were trying to arrange production by an alternate source.

Have any of you managed to buy this since July in the USA? I'm not talking about twinlead or tubular line but window type line around .4 inches wide, just like a scaled down version of the familiar "450 ohm" ladder line.

I wonder how I could measure the "balance" of the balanced

line coming out of my VLBLT to check for any negative effects created by the path through the relays? The two effects I would expect would be change in impedance and (increased) radiation of RF and I should be able to do simple measurements of these. But have I got this right?

But speaking of tubular 300 ohm line, this is mentioned in the Amateur literature but seems to have also vanished some time ago. It is said to be much more resistant to the effects of moisture than twinlead type balanced line. I wonder how it compares to ladder line in this respect? Have any of you had direct experience with this or have you seen it for sale in the USA or England? By tubular I mean the wires pass along either side of a hollow tube rather than flat strip-like insulation. Also, I would imagine that tubular line would resist the "twist every few feet" trick many recommend?

As for hardline as a balanced line substitute, at HF frequencies Dean Straw's program "TL" shows negligible loss with this for reasonable lengths, even with pretty high SWRs (on the order of .2-.4db per 100'). Hurricane Fran rearranged the scenery where I live but the one silver lining is the huge quantity of replaced CATV 1/2" hardline left along the streets. I for one have been helping to make the area beautiful once again! One question: is the foam dielectric in hardline impervious to moisture?

I just subscribed to this reflector recently. Some great info here, and the "digest mode" is wonderful.

Regards,
Pete
KS4XG

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Bill Acito 03-Oct-1996 0903 <acito@asdg.ENABLED.com>
Subject: [930] Cases
Message-ID: <9610031314.AA09112@us1rmc.bb.dec.com>

Fyi,

Just got my latest order in from Electronic Goldmine. If you check your summer catalog, there is an aluminum case displayed on pg 52. Extruded aluminum (like an external modem), 4 3/8 x 2

5/16, 4 5/16 deep. Aluminum front and back plates, rubber feet, and a mounting plate if you ever want to mount this thing to a wall (the box pops on and off of the plate). No finish; you paint. Ridges run the inside length of the case to act as PC board supports. Might just fit a SW-40 rig. Nice small, shielded cases if you need them, \$6.95 each. Part # G2907

I have no financial interest with EG; just thought I'd pass on what I thought was a good deal.

Electronic Goldmine is in Arizona, 800.445.0697

b

. - I own my own words -

Bill Acito

acito@asdg.enet.dec.com

|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS qrp-ne qrp-l adv-rs arci norcal amsat-na arrl-life

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watch this space :-)

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996

From: wb2vuo@juno.com (William K Hibbert)

Subject: [953] CB to 10 Mtr QRP

Message-ID: <19961003.130629.4799.2.wb2vuo@juno.com>

Back in the late 70's/Early 80's, "73" magazine had a whole grunch of conversions for CB sets to 10 Meters, including a couple of Cybernet/Hy-Gain units to 10 Mtrs CW. In fact, the 2nd generation 10 meter beacon I ran (WB1DNM/B & KA1YE/B) ran a Hy-Gain 1 board.

I have given away the conversion data, but was told the other day that "73" published a compilation of the conversions. Does anyone happen to have the collection, or is it still available? I don't get "73" anymore, and have no one locally that does out here in the Swamp...

Email direct, unless you think the info would be of general interest...

72/73, Keith, WB2VUO, QRP-L #582

EMPS Q=4 S=1 DX=0

Trustee, KB2YTW/B 10 Mtr Beacon (28.2860 MHz)

"In the Depths of the Great Bergen Swamp...FN13ac"

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Marshall Emm <75230.1405@CompuServe.COM>
Subject: [956] CQC Update
Message-ID: <961003171801_75230.1405_HHB38-3@CompuServe.COM>

The Colorado QRP Club home page has been updated. Officers' names, calls, and e-mail links have been added, the swap list has been updated, and a new page has been added for upcoming events. The url is:
<http://ourworld.compuserve.com/homepages/mtech/cqc.htm>

73
Marshall
AA0XI

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [973] FAQ's: magazine adrs. re Ants.,etc
Message-ID: <n1367768159.5123@msmailgw1.arlut.utexas.edu>

There were queries as to which issue of 73 had the QRP features,etc.--

This WAS the Oct. issue, (like the other ham magazines that are monthly, the following month usually arrives in the late part of the previous one.)
Should be on the newstands now.

Someone asked about trap antennas, there was a trap dipole piece also.

"73" magazine, 70 N202, Peterborough, NH, 03458-1107. One yr. \$24.97
US; Canada \$34.21, overseas \$19 surface additional per year. \$42 air
additional.

Other magazines of interest to QRP group: "QEX", ARRL, 225 Main St.,
Newington, CT. USA 06111, (same as QST adr.) US ARRL member rate: \$15,
nonmember \$27, Canada \$28 and \$40, overseas surface \$20 & \$32;
Air: \$48, & \$60. Experimenters magazine. July '96 had Tuner losses piece by
W9CF. ('Estimating T Network losses at 80 & 160 Meters') [Was still at local
ham store today, and I picked one up.]

"Communications Quarterly" by CQ Communications, Inc. 76 N. Broadway,
Hicksville, NY 11801. \$9.95 per issue; \$29.95 per year, (four issues).
Same adr. for CQ magazine that has some QRP items from time to time, but CQ is
mainly a contest magazine. The "Quarterly" has many interesting antenna items
from our own L. B. Cebik, and others. Recently much on fractal antennas. Good

historical items on megapower VLF in Spring issue.

Finally, start a consulting business, or RF endeavor, and send for the controlled circulation trade magazine, (free, monthly), "R. F. Design" This is definitely for the R&D crowd, but some antenna and wireless items will educate QRP'ers especially the tutorials. As stated, until recently was edited by QRP'er Gary Breed, father of the A&A Engineering transceiver, (which is now discontinued). Subscription inquiries 847-647-0756, or fax 847-647-7543. P. O. Box 1147, Skokie IL 60076

Keep this around, someone will ask for this information in 6mos.! :-)
72, Stuart K5KVH rohre@arlut.utexas.edu

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: ji3m@scubed.com (James R. Duffey)
Subject: [940] First Fox
Message-ID: <v02130502ae797b3abea8@[192.31.66.229]>

The gods were with me last night. I snagged the fox on my first call. Tim had a nice 559 signal here until 0130 then he dropped out completely. I was somewhat concerned about working Tim as I have a lot of trouble making close in contacts on 40 M. I live in the mountains so ground wave propagation is broken up quickly. The antenna has a low angle of radiation so I have trouble working close in. I couldn't work NA5N in QRP Afield and they were located 20 miles south of me.

I had the receiver tuned to 7037. I walked up to the shack at 0100Z and heard a large pileup. Had to be the fox. I waited heard him come back to somebody, work him and call QRZ I called and he came back to me. What luck. I got excited and bungled my number so I slowed Tim down a bit when he asked for a repeat. Sorry about that gang.

I noticed that some called Tim after he gave his exchange, but before the person he was working could give him his exchange. I suppose that this is because Tim's number is 73 and people thought he had signed. I am sure it is not indicative of pileup etiquette by QRP-L ops.

I went off to eat supper, repair a reading lamp, read the newspaper and help my daughter with her calculus homework (she is a junior in High School). In between I listened to the fox from time to time. Unfortunately I left my sheet of calls at home. 7s and 0s were strong early, then the California rush started about 0115. Tim dropped out at about 0130, but I could still hear the hounds calling. The east coast started to come in strong here about 0145 and I heard AE4IC calling strongly for what seemed like 15 minutes before Tim finally had propagation to him. AE4IC always has a strong signal here on 40 as well as 20, where I usually work him in

sprints.

I'll miss being a fox this year, but I will still enjoy the hunt. Tally Ho
- Duffey KK6MC/5

James R Duffey KK6MC/5 DM65
30 Casa Loma Road
Cedar Crest, NM 87008

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: "T. PETTIBONE" <tpettibo@NMSU.Edu>
Subject: [1010] Fox # 1 correction
Message-ID: <Pine.A32.3.91.961003210342.49878C-100000@hector>

Gang, normally I wouldn't do this but there is a lesson to be learned. Last night at 0111 I worked AB70A, Dennis in AZ. I miscopied his call when I transfered to the computer log to AA70A. Well, my intelligent computer running the LOGic logging program, along with the QRZ CD rom of callsigns, dutifully copied AA70A as Dan in Oregon into the log and even printed out an address label for Dan's qsl. Luckily, Dennis indicated my error and I verified against the paper log. He even mentioned me asking for his name and he replied "Kent". Then I went back and said "TNX KENT". Then I sent out my FOX log with Dan in Oregon! Aren't computers wonderful?

By the way, I've sent out QSLs for the first FOX run except for KK7BD, K1MG, and N5ET whose calls are unfamiliar to the QRZ CD.

Worked the FOX, AE9K, at 0224, 4 October 1996. Thanks Brian.

Tim AB50U

p.s. I'll be out of town all of next week so youse guys can catch up!

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [1008] Fox #2
Message-ID: <Pine.SUN.3.90.961003194751.23269B-100000@vortex.sage.dri.edu>

Brian had a good 559 signal into NV tonight.

Some digital nerd was qrmng from time to time. When
it didn't stop things, he would quit for awhile!

Congrats to another great fox. cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Brian Cieslak <bcieslak@merge.com>
Subject: [935] FOX #2 from Wis 10/4/96 02:00 - 04:00 Z
Message-ID: <199610031408.JAA11169@world.merge.com>

I didn't see my anouncement in the digest this morning so I'm not sure I
made it. So here it is again. Look forward to working you all.

/*****/
Turn those beams toward Wis cuz FOX #2 will be on

October 4 from 02:00 to 04:00 ZULU
(that translates to 9:00 - 11:00 PM CDT, Thursday, Oct 3).

Listen for AE9K around 7.037 or 7.043 MHz depending on QRM.
Exchange: RST, S/P/C, Name, QRP-L# or Power

I'll be running the full legal limit to make it easy
(legal limit for QRP anyway, 5W) into a vertical.

72,

Brian AE9K

(If you want my number, you'll have to earn it)

/*****/

PS. Nice Job Tim!!

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: kb0rol@juno.com (Bradley L Mugleston)
Subject: [921] FOX - Novice
Message-ID: <19961002.204328.7695.15.kb0rol@juno.com>

OK, I got excited. After all I'm going to be a FOX. I will be on

7:00-9:00 Mountain time on TUESDAY October 8th LOCAL. This is 0100 to 0300 Wednesday October 9th in some town in England. Give me a chance to rest my brain and I'll post my October 29th times later (still haven't figured out this Day Light Savings thingy yet).

Brad Mugleston - KB0ROL
Colorado QRP Club # 170, QRP-L #316, ARRL
QTH - Aurora, CO - DM79oq
KB0ROL@JUNO.COM
BMUG@GWL.COM

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [1007] Fox Wed Nite
Message-ID: <199610040240.TAA18582@dancris.com>

Well, I at least heard Brian, AE9K. Lots of QRM here, and even with the SCAF wide open, I couldn't give him better than a 229. This was at 0239 UTC, so will keep listening. Maybe, just maybe, after all this time (including last year), I'll bag a fox!

73,

Bob, ki7mn@dancris.com
NorCal #1228, ARCI #8918, Qrp-l #271, CQC 274

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [1011] Fox---Finally!
Message-ID: <199610040311.UAA19524@dancris.com>

Wow, what a rush! My first fox ever. Got Brian about 15 minutes after I first heard him, and, what with the qrm and all, still managed to get an exchange. At least I hope he got my end of it. Guess I'll find out tomorrow.

73,

Bob, ki7mn@dancris.com
NorCal #1228, ARCI #8918, Qrp-l #271, CQC 274

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Timothy Gordish <105020.2634@CompuServe.COM>

Subject: [967] Fox-Novice KB9LGJ
Message-ID: <199610031429_MC1-A02-6E59@compuserve.com>

Ready or not here I come! Catch me if you can.

I will be the Novice Fox on Tuesday 15th Oct. from 0100-0200 UTC. I thought an hour would be a bit more bareable if I have difficulty. I am a bit confused since UTC the date would actually be Wednesday the 16th. I will be operating on Tuesday night local though on 7110+. Look on the high side since 7108 is filled with local hf packet noise.

My QTH is Yuma, AZ which is remote to say the least, but all you western folk shouldn't have to much difficulty finding me. I will be using my Atlas 210x with the power cranked down to less that 5 watts. I say less because my power meter I will be borrowing is not that accurate in the QRP range, and feel it is more ethical to err on the side of less power than more. The antenna is a Hamstick Dipole on 40m which seems to work very nicely for me.

By the way, does it make any difference which direction the legs of the antenna point? If so which direction is best? I can manually rotate the antenna if changing direction is called for.

72 de Tim
KB9LGJ
NorCal QRP-L #457

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Peter Simpson/US/3Com <Peter_Simpson@3mail.3Com.COM>
Subject: [926] FOX: caught a glimpse of his tail
Message-ID: <9610031136.AA2491@hqsmtp2.ops.3com.com>

It was a wild night on 40 last night. Rain, fading, noise and *lots* of activity. I thought I heard a faint "AB5...", but that was all I heard. I'm claiming credit for seeing his tail as he escaped into the bushes :-)

All was not lost, though, because I heard someone calling CQ/QRP. Turned out to be Greg, N9MDK, from IL. I'm not sure whether it was my terrible sending, the QSB or the station that started up right on top of Greg, but we never completed the QSO. The Norcal 40 has super sharp selectivity, but when both stations are generating the exact same tone in the earphones, it makes for very confusing copy!

This QRP stuff is a HOOT!

Peter, KA1AXY (who has a real fox living in the woods behind the house)

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Joe Gervais <vole@primenet.com>
Subject: [920] FOX: Hats off to Fox #1
Message-ID: <199610030524.WAA07758@primenet.com>

Howdy All,

Wanted to publicly thank Tim (AB50U) for a great job on the opening night of the Fox hunt. It was such a first-class job of operating that I listened for another hour after working him just to hear how to handle pileups. I learned alot!

Also, all those QRP signals trying to work Tim seemed to have burned a hole into the ionosphere and opened up the doors to the N.E. for me. After the Fox hunt I worked Maine (a new one for QRP WAS)! Wahoo! (Hey, I'm easily amused. :-)

Hopefully tomorrow's hunt will open a path to Delaware from the Arizona desert....

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPion #7

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: facmsa@facilities.buffalo.edu (Adams, Mark S.)
Subject: [971] FOX: Not here!
Message-ID: <1996Oct03.153100.1483.21183@facilities.buffalo.edu>

Hi Joe and Gang,

Only caught faint glimpses of his nose (AB5??) here 20 miles east of Buffalo, NY. I could hear a faint, but numerous station, pileup. Never did catch his tail (...0U). Oh well, maybe next time. Seems that I will

need a beam of some sort to work NM and AZ. My loop seems to neglect those states.

72, Mark N2VPK

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Timothy Gordish <105020.2634@CompuServe.COM>
Subject: [984] Fox: Novice Oooops, KB9LGJ
Message-ID: <199610031706_MC1-9F7-DFA4@compuserve.com>

Ooops, I just posted a note about being a Novice Fox, and got the dates wrong. I didn't realize what week it was. Hi Hi. I meant to operate on October 22 from 1:00 to 2:00 UTC vice October 15th. So please make the correction in your skedules.

73 de Tim
KB9LGJ
QRP-L #457 Norcal

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: "Glenn E. Scott" <scotty@facade.adm.clarkson.edu>
Subject: [972] foxhunt
Message-ID: <43A712A0E34@FACADE.ADM.CLARKSON.EDU>

Well.....no fox again last night. I did hear a HR1?? though, but made no contact. Anyone from the far corner of the earth, here in NY, get the fox last night ? Or is it just me ?
Oh well, there is next time. Besides, after listening last night, I realize that my copying ability is impaired after not hearing any code since last May. I need to brush up or the fox may not be able to copy me nor will I be able to copy him. If my copy is off, I can't imagine what the sending is like. I'll find out tonight.

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: "Ron A. Kolarik" <74244.227@CompuServe.COM>
Subject: [1012] FS: Kenwood TS-440S/AT
Message-ID: <961004035554_74244.227_BHR50-1@CompuServe.COM>

One to many radios

TS440S/AT with International Radio 2.1 khz and 400hz filters also has the

internal
computer interface chips (external box required). \$950 includes shipping to
lower 48.

Ron Kolarik N0IDT
74244.0227@compuserve.com
402-423-1437

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: PChristensen@Continental.com
Subject: [962] Future Norcal Projects
Message-ID:
<c=US%a=_%p=Continental%l=SEEXCH01-961003180105Z-3477@neexch01.continental.com>

Aside from the 49-er, does anyone know if Norcal will have any future
QRP kits available? What kits does Wilderness currently offer?

Thanks!

-Paul, N9AZ
>

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [955] German quad
Message-ID: <M1083943.005.pl6s5.1.961003164454Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Thanks to Keith, WB2VU0, and Jay, WB6AAM, for info on the German quad. I don't
have the real estate for the real thing, so I'm going to try a "corrupted"
version laying on the roof of my house. I'm interested in a low noise receiving
antenna primarily.

I will lay out as large a loop as I can on the roof, and then at the center of
the two sides add twinlead stubs to bring it to resonance. I don't like to
insert loading at a high current point if I can avoid it. This has worked well
for my diamond loops on a mast in the past. It may be that between the loading
and low height, I may get a direct 50ohm feed without a matching stub too.

Anyway, thanks again.
72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: "Dan Tayloe-P26412" <Dan_Tayloe-P26412@email.mot.com>
Subject: [992] Homebrew VFO and Drift
Message-ID: <M27277548.001.pzxk0.1.961003220319Z.CC-MAIL*/OU=SATCG/OU=AZBH/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

I got my Sierria-like 40m rig finished just in time for the QRP AFIELD contest. The VFO was tuned 3.0 to 3.150 MHz to match the 4.0 MHz IF I was using.

The VFO used a nice double bearing air variable capacitor, a ceramic coil form for the inductor, and NPO capacitors. After relatively little temperature compensation fussing, I had a VFO that had about 50 Hz of total drift power on to one hour later.

I liked the performance of this little rig very much. However, the VFO section takes up about 1/3 the entire space I have inside the rig. It could be much more compact if I used varactors and toroids.

I recently set about building a 30m version of the same thing. IF was 6.173 MHz with a 3.927 MHz VFO. Wanting to make it much more compact, I used a T50-6 toroid core, NPO caps, and a MV209 hyperabrupt varicap diode. I got about 800 Hz of drift from power on. This is the typical kind of drift that goes on and on seemingly forever in the negative direction.

I went to a local surplus store (Apache Reclamation) and found a small stash of 82 pf polystyrene capacitors. At least they *look* like they are polystyrene from the transparent casing and wrapped aluminum core. These caps are supposed to have a negative temperature co-efficient (N150?) that are reputed to match the positive temperature co-efficient of the T50-6 core.

Things are better now, but I still see a 200 Hz variation *after* warm up as I check on it from time to time. Since this is just a spot check, I am sure the steady state drift is worse and I am not happy with it.

The VFO is inside an enclosed case, but is under an air conditioning duct (the temperature in Phoenix today was around 95 degrees) which does help in evaluating temperature stability.

Since the bulkest component was the air variable, I am still considering keeping the MV209, but returning to a ceramic coil form. Since I am using the varactor to tune only a limited portion of the

band (bottom 20KHz of 30m?), I am hoping it will have more limited drift contribution to the VFO stability.

Anyone know where I can get some 3/4" diameter ceramic coil forms? The two I had I got from a junk box from a ham fest.

So much for my ramblings.... For myself, I think I enjoy building the stuff more than operating it (except for QRP AField!).

- Dan Tayloe KK7BD (ex-WB0NVB) Phoenix, AZ QRPL # 696

P.S. Got the Fox! (Az to NM is easy, but WI will be harder tonight!)

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Mike Boice <kd0fx@worldnet.att.net>
Subject: [1001] Hot dang, it works! (long)
Message-ID: <1.5.4.32.19961004002524.0068e684@postoffice.worldnet.att.net>

Well, after around 3 months of building, tweaking, and getting much outside help (thanks, Roy), I finally got my NW30 (as in 30 meter version of the NW8020-series) on the air Tuesday. A not-beefy-enough 7815 in my power supply kept me off for a few days until then. I tuned around and listened a lot then, quite nervous about getting back on HF for the first time since 1983 (yes, 1-9-8-3). And that also means 15 years without a CW contact, so to say I was a little rusty is probably the understatement of the year.

Although I tried a couple CQ's, and tried to answer a few, I didn't have any luck. The band also didn't seem to be too hot at my QTH, either. Wednesday afternoon (luckily, I had the last 2 days off), I got to thinking about why I wasn't getting out. Hmmm.....maybe it's that offset thing so recently discussed here. I popped the top off the RS case and got to tweaking with my RS TV alignment tools (also suggested here). After fiddling with it some, and not really being able to notice a significant difference in what I heard, I left the cap in a similar sounding, tho different position from what it was originally.

And then, wha -la! K3LPI in Massachusetts comes back to me. Ooo -rah! I was thinking - coast to coast on my 1st try. But, the QSB and QRN gods had decided it wasn't to be, and he (or I) disappeared before signal reports could be exchanged. But it gave me renewed strength and hope in my quest for QRP salvation. A while later, I pounced on KB8AZS, Mike in Cincinnati. "Tnx fer call, ur rst is 459." A hurried 569 back to him, and YES! Not only could someone actually copy my fist, but my rig and 15 foot up, mostly horizontal delta loop actually worked! Afterwards, I plugged our calls into

the QRP-L listserver and came up with 1820 miles, on around 4 watts (guesstimate - no wattmeter yet), making it 455 miles a watt. Nothing compared to others' accomplishments, but it may as well have been to the moon for me. And another nice thing - I was able to give him Washington on 30 meters.

And so, in conclusion, I just wanted to extend my heartfelt appreciation to all here. A special thanks goes out to Roy Gregson, W6EMT, who salvaged my rig at a time when I was about to throw in the towel. From this group, not only have I received a virtual UN of helpful, tried-and-true advice on everything from working on my code speed, selecting a rig, picking an antenna(s) and getting them up, but also something even more important - inspiration. All the reports of guys and gals working the world on tiny radios and "feeble" antennas helped to keep me going and not break down into fits while looking at my antennas, which I can almost reach up and touch with my hands (a power line runs diagonally across my backyard, dipping to about 13 feet up next to the house, preventing any real height for antennas).

Maybe I'm getting too worked up over just one contact, but I don't think so. QRP got me interested in radio again, and QRP-L got me into doing something about it. So my advice to everyone out there still contemplating getting active - do it! Do it with whatever you've got, exercise a little patience, and ye shall be rewarded ten-fold.

Today (Thursday) during my lunch break, I worked WS0L in Colorado, and this afternoon after work, around 2300 UTC, I even managed to snag WL7VO in Chicken, Alaska, on his CQ! Weak signals and a lot of QRM (a fellow called QRL? right on top of us, but apparently couldn't hear either of us) cut it short. Of course, Alaska is about 300 miles closer to me than Ohio but nevertheless, Dick's call back made my night (heck - month!).

So who called off the TMPs? I just got here! The low bands are my next project objective, but it will be November or so at the earliest before I can get down there.

A final quick comment: I STRONGLY support the place Elmers have in amateur radio. I met up with mine in 1981, and still talk with him (via email) several times a week. He still gives me advice on a regular basis (and not just about radio). If you can, be an Elmer; otherwise, search one out. You'll be glad you did.

Thanks to all you "DREs" and to everyone else - Just Do It!

73,
mike KD0FX
Richland WA QRP-L #576

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: "Phil, AC6LS" <ac6ls@amsat.org>
Subject: [925] jvfax users?
Message-ID: <32536BC6.4A40@amsat.org>

I have completed the op-amp (741) demodulator per the jvfax schematic and I am happy to report that it works quite well with the program HAMCOMM, however, I am having a bit of trouble getting anything while using jvfax. anyone have any pointers??

btw, Hamcomm with the easy to build circuit is very flexible. the built in spectrum analyzer and some of the other features coupled with the digital modes is very neat for a project you can build for around \$7.00.

73 de Phil

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: svecbrdk@well.com (L.Svec,W.Burdick)
Subject: [944] KC-2/Cascade installation (via W6EMD)
Message-ID: <199610031536.IAA19646@mh1.well.com>

I'd like to pass on the following installation tip, provided by Dave Meacham, W6EMD. It turns out that the Cascade VFO is more susceptible than the Sierra to interference from the KC2's 10Hz VFO sample interval timer. This mod cleans it up.

73,
Wayne

* * *

Changes for the Cascade/KC2 installation:

- 1) Change C8 in the KC-2 to 100pF.
- 2) Run RG-174 from KC-2 to U7 (I use about 4.5 inches of it).
- 3) Couple the center conductor to pin 7 of U7 with a 15pF C0G or NP0 cap.
- 4) Ground the coax near U7. Leave the coax shield at the KC-2 end disconnected.

In normal SSB operation I don't hear any evidence of the 10Hz pulses. If I zero beat a strong carrier I hear it weakly (also near zero beat). Wayne pointed out that the AGC is not working under these conditions, so

there is lots of gain. I'm happy with it as is, but there may be other ways to isolate the KC-2 from the VF0.

72, Dave, W6EMD

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: svecbrdk@well.com (L.Svec,W.Burdick)
Subject: [943] KC1 manual update soon; new KC1/xcvr installations?
Message-ID: <199610031536.IAA19615@mh1.well.com>

Hi all,

I'm about to do another rev of the KC1 manual. If you have installed a KC1 in a rig not covered in the current manual, please send me your installation notes. It would be helpful if you could put them into approximately the format I used in Appendix E. (Please include your full name and callsign. I give credit in the manual to the originator.)

Thanks!

73,
Wayne

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: svecbrdk@well.com (L.Svec,W.Burdick)
Subject: [945] KC1 manual update soon; new KC1/xcvr installations?
Message-ID: <199610031543.IAA21237@mh1.well.com>

Hi all,

I'm about to do another rev of the KC1 manual. If you have installed a KC1 in a rig not covered in the current manual, please send me your installation notes. It would be helpful if you could put them into approximately the format I used in Appendix E. (Please include your full

name and callsign; I give credit in the manual to the originator.)

Thanks!

73,
Wayne

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: PDouglas12@aol.com
Subject: [1004] Looking for company in Boxboro Friday/night
Message-ID: <961003220034_536371776@emout11.mail.aol.com>

Hi Gang,

Looks like I will be here in Boxboro only through Saturday afternoon. But I am looking for company for dinner FRIDAY night. I will be at the Radisson, down the road from the Holiday Inn in Boxboro, but won't have wheels. So would really like to get together with whoever isn't going to Rochester! Anyone expecting to be around? Also will be over at the Hamfest site during the day Friday, but don't plan to take either of the big seminars that day. They are not, apparantly having flea market or other goodies till Saturday. So, if anyone needs set up help, email me. I'm available.

72,

Preston WJ2V

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: PChristensen@Continental.com
Subject: [963] Miniature CW Paddles
Message-ID:
<c=US%a=_%p=Continental%l=SEEXCH01-961003180443Z-3480@neexch01.continental.com>

I have been considering the purchase of the Galbraith iambic paddle from New Zealand. Are there any other compact iambic paddles available for portable QRP use?

-Paul

>

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: tony@wilkes.ak.planet.co.nz (Tony Wilkes)
Subject: [986] Morse Keys
Message-ID: <626@wilkes.ak.planet>

Hi Gang

There have been a few mails on morse keys
I subscribe to Morsum Magnificat a bi-monthly mag which has many
adverts on keys
URL <http://retiarius.com/morsum/>

Tony Wilkes --- Whangaparaoa, on the North Island, New Zealand
Royal Forest & Bird Croquet
ZL3SLH & G3SLH > QRP-L #717 QRA >RF73JF

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [923] Mosfet PAs
Message-ID: <199610030648.HAA27464@mail.enterprise.net>

Thanks to those who took a look at my web site for the 'Protect that
Mosfet PA' file. Some could find it others not, so I am a bit puzzled. I
will sort it out, it is probably a typo somewhere. However, here is the
main info for those who need it.

To prevent blowing the Mosfet PA, simply add a 10 ohm resistor in series
with a zener diode from gate to earth, with the positive of the zener to
earth. The value of the zener is chosen depending on the maximum gate
voltage of the FET, which you can find out from data sheets, catalogues
etc, then select the zener with a slightly less voltage. For example, if
the max voltage of the FET is 15v, choose a zener of say 13v 400mw. From
memory this example would be OK for the VN46AF. For our friend the VN10KM,
a 4.7v 400mw will do nicely.

Until I sort out whatever hiccup there is in the index page of my web
site, I hope this is of interest.

Regards...

--

Frank G3YCC (G QRP 042)
QRP Web Page:
<http://homepages.enterprise.net/g3ycc/>

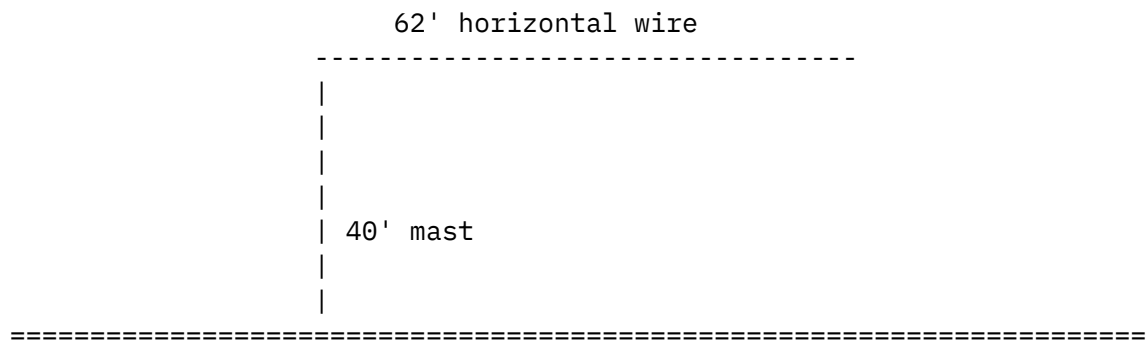
From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [989] Multi-band Inverted-L: A theoretical look
Message-ID: <19961003.160029.4719.0.wb2vuo@juno.com>

The Inverted-L antenna can be a winner, and will fit in many lots that a dipole won't. One of the possibilities with the Inverted-L is making it a multi-band antenna for the lower end of the HF spectrum, and add 160 Meters to it at the same time.

Masts of 30 - 40 feet can be installed at most locations using TV antenna hardware, and will be strong enough to survive almost any adverse weather encountered, short of hurricanes and Alien invasions...

So, how can we use this to our advantage? By installing a mast at the end of the house/garage or whatever, and insulating it with PVC pipe sections, the mast can be fed as a vertical, against a suitable ground. One could also attach a wire from the top of the mast, running it horizontally out to a tree or adjacent building, and make the system resonate at a lower frequency. Keep in mind, however, that a base-fed vertical or Inverted-L doesn't have to be 1/4-wave long (high).

Let's look at the system like this:



The overall length of the antenna is 102 feet. This is roughly 0.18-waves on 160 Meters (1.82 MHz), 0.37-waves on 80 Meters (3.56 MHz) and 0.74-waves on 40 Meters (7.04 MHz). The feedpoint will look reactive on 160 and 80 Meters, and resistive on 40 Meters. The reactance will be capacitive on 160 Meters, requiring a small coil in series to match the feed, inductive on 80 Meters, requiring a capacitor in series for matching and can be fed directly with coax on 40 Meters. This was detailed in the Editors & Engineers "Radio Handbook", in many editions, by Bill Orr, W6SAI, under the subject of a Dual-band Marconi for 80/40 or 160/80 Meters...

A matching network could be build into a weathertight box, mounted at the bottom of the antenna, an either switched with a DP3T rotary switch, (requiring the op to walk out & switch it), or wit a pair of DPDT relays. The 40 Meter position would feed the base directly with the coax, the 80 Meter position would switch in a 150 - 250 Pf variable in series with the

base and the coax, and the 160 position would switch a 10 - 25 uH coil in series, which would be tapped for the proper match. If you wanted to get

fancy, one could have a couple of relays for 160 and 80, and remotely match the antenna at a couple of spots in the band(s).

A good ground would be needed, but what I used on my 160 Meter Inverted-L was a pair of 1/4-wave elevated counterpoise wires, wrapped around the house about 3 feet up. It worked better than a round stake and buried wire radial system I used to use. If you didn't want, or couldn't use 160 Meters, the overall length could be cut in half, and run it on 80, 40

and 20 Meters in the same fashion...

This is a theoretical view, and if any one can model it, I would be interested in seeing the results...

72/73, Keith, WB2VU0, QRP-L #582

EMPS Q=4 S=1 DX=0

Trustee, KB2YTW/B 10 Mtr Beacon (28.2860 MHz)

"In the Depths of the Great Bergen Swamp...FN13ac"

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996

From: bfollett@ditell.com

Subject: [934] NN1G

Message-ID: <199610031411.IAA09790@orion.ditell.com>

Gang:

After reading Dave's post, and Gary's most recent post of:

<<The callsign NN1G STILL means a LOT to ME.>>

Maybe Dave should try to negotiate rights for exclusive use of NN1G -- after all, its been in the commercial domain for quite some time! :-)

73, Bob

Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10, ARS
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 E-mail: bfollett@ditell.com

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: wb8ygg@juno.com (Bradley S. Mitchell)
Subject: [1009] NN1G etc.
Message-ID: <19961002.190236.12615.0.WB8YGG@juno.com>

Well, I couldn't stand by with all the great discussion
about the NN1G rig!

This is my absolute favorite!
It really got me going in building,
and haven't had the same energy since!

Here is a very old post of my experiences way
back when!

=====
73 Brad WB8YGG
>From qrp-request@Think.COM Sat Nov 27 22:52:16 1993
From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: George Gingell <k3tks@u1.abs.net>
Subject: [987] NN1G KITS
Message-ID: <Pine.BSI.3.93.961003171455.5192H-1000000@u1.abs.net>

I would like to thank Doug for the great informational message that
he posted here on QRP-L about the NN1G Kits. I have seen this kind of
thing happen in the past. It is a shame that things get distorted like
that at times. I think it is one of the risks that come along with this
new information age. It is kind of like the news, everything that you
read or hear is not always the truth or even the whole story.
In this case, both NN1G and Danny's small parts get a black eye. We really
need to be careful that we have the facts correct before we do a review or
post a message on the list for all to read. I have a NN1G 40-30 kit which
I got thru the New England QRP Club. The only problem I had with it was
having one too many turn on the VFO coil. I have been planning to purchase
one of Daves New Rigs for 30 meters as soon as I get a few spare bucks.
I saw it at Dayton and fell in love with it. I really like the plug in
connectors. Anything that makes it easier to work on is good in my book.
Like Doug said, we have some great QRP Designers making some really great

rigs for us to buy these days. You can't go wrong with any of them IMHO.
Thanks again Doug and a special thanks to our wonderful QRP Vendors...

72,73 es

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@abs.net
Maryland Milliwatt Club QRP Reference Library, (301)572-6789

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: ROYGREGSON@aol.com
Subject: [924] NN1G Rigs
Message-ID: <961003035748_200967682@emout11.mail.aol.com>

Hang in there Dave.....Don't change your call, you have a good reputation to go with it ! Don't like to see anyone's product get slammed. In reading the posts about the early NN1G's, that some had trouble with, I know your right, about the parts supplied. First hand experience ! But, most important, what about all the NN1G's that were used in the contests as posted in QRP Quarterlys long before you started Small Wonder Labs ! There were a lot of them that worked good ! Something that cannot be forgotten. I worked many, many early NN1G's on 20M.
Roy W6EMT

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>
Subject: [961] NorCal Meeting Sunday
Message-ID: <1.5.4.16.19961003100824.3c87a0b4@telis.org>

QRPers, the October meeting of the NorCal QRP Club will be held as usual Sunday October 6th at the California Burger Restaurant, located off the Santa Rita Exit of I580 West of Livermore and East of Pleasanton. The California Burger is located in the small shopping center behind the Shell Station across the street from McDonald's Restaurant. If you are coming from Livermore, take the Santa Rita exit, and you will come to a stop light. Turn left and go over the freeway. You will come to a traffic signal. Turn left, and you will notice a McDonald's on your left, and a Shell station on your right. Take the first right turn, (about 107 yards, 2 feet and 7 1/4 inches from the intersection) and you will be in a small shopping center. The California Burger is in the SouthWest corner of the shopping center. Look for all of the cars, you can't miss it.

If you are coming from Pleasanton, take the Santa Rita exit to your right.

You will come to a traffic light. Go straight across the street, and you will see the McDonald's and Shell Station. Same directions as above.

There will be a demo of the St. Louis Vertical, NorCal Dipole (hey that's a new one!!), Wayne Burdick may be there with the World Premier of his new rig, the SST and that is all that I will say about that one. Wayne will have to tell you the rest. NorCal will also have 20 of the SouthBend SD-20 poles for sale at \$20 each, (yeah, I paid \$47 for mine when I "special ordered" it, sure got "special treatment"), so you can build your own St. Louis Vertical. I will also have the very first set of Arizona Scorpion MiniMag Paddles that I made from an article to appear in Dec. QRPp.

Remember, if you have never been to a QRP meeting, this is not like all of the other meetings you go to. It starts about 10:30 and ends about 1:30 or so. No rules, no minutes, no new business, no old business, just a get together of QRPers who want to meet and share QRP information with others of like interests. Our meeting is entirely social, and those who attend always seem to enjoy themselves. If you come, bring along your latest project to share with the rest of us, we want to see and admire it, probably steal a couple of your ideas in our next project, but we will have fun!

Note: The SouthBend poles are not shippable. We sell them pickup only.
72, Doug, KI6DS

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: SYDV00A@prodigy.com (MR FLOYD E SMITHBERG)
Subject: [919] Numero uno FOX
Message-ID: <199610030511.BAA21856@mime4.prodigy.com>

Well the first hunt brought out lots of QRP-lrs...heard: WB5QY, KK7BD, KC7NEV, W9UQB, NQ7K, KQ6AG, WA7FCU, KI6DS(2W), KI6SN, KK5RO, K06KA, AE4IC, N5ET, KD6ZMJ, N6WG, AE9K(hope cu tomorrow night) also working Tim. He was a good 559 here as I worked him at 0102Z but started to fade about 0130 and by 0200...gone. Could hear others working him later but no trace of Tim. Used my 5W NC40A, RS DSP, CMOS III, MiniMag paddles and new 35.5ft vertical I cobbled out of old al tubing and an 8ft whip. Vertical covers full 40M under 2:1 per my Autek. Still have drooping dipole at 25ft and sigs were about same on the foxes but the vertical was a bit noiser. Had my TS850/NIR-12 tuned at 5W and ready but the NC40A did the job beautifully. Thanks Tim for your effort.....nice job.
Floyd NQ7X Phoenix ScQRPion

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996

From: sigcom@juno.com (Stephen M Smith)
Subject: [974] NW80-20 and RS DX-394 info.
Message-ID: <19961003.091851.8295.0.sigcom@juno.com>

According to the review in the QRP-L archives, the VFO range for the NW80-20 (W6EMT) kits offered by Dan's is 2.8-3.0 MHz. Is that the same for every NW kit, regardless of band and if so, what are the I.F. freqs. for each band/kit?

Also, I posted a request during the QRP Afield weekend asking for comments regarding the Radio Shack DX-394 SW receiver. I didn't get any replies, but I don't know if that's because a lot of people were out in the field and didn't see my post or if no one here has tried that unit. So, has anybody here tried it, and what was your impression?

Thanks and 73.....Steve, WB6TNL

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: William McFadden <wmcfadde@oucsace.cs.ohiou.edu>
Subject: [927] October QRP Quarterly
Message-ID: <199610031211.IAA13259@oucsace.cs.ohiou.edu>

I saw the table of contents for the October QRP Quarterly on the QRP ARCI Web Page yesterday, and realized I haven't received my issue yet. Upon reaching home I verified that my membership is up to date.

Should I have received the October issue yet? (In other words, has anyone else received their copy yet?)

72,

Eric

--

W. Eric McFadden WD8RIF
wmcfadde@ace.cs.ohiou.edu
<http://ouvaxa.cats.ohiou.edu/~mcfadden>

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: adams@chuck.dallas.sgi.com (chuck adams)

Subject: [977] Oops
Message-ID: <199610032024.UAA21672@chuck.dallas.sgi.com>

Sorry gang,

I was responding to email from a member of the NORTEX group and outta habit added cc to qrp.

My mistake and I apologize.

The person involved started in on me again yesterday.

I refer everyone back to archives to date 960524.
Anyone who calls people the names that were exchanged and posts messages like:

>This LIST group really sucks. Half of you guys don't know your balun
>from a hole in the ground, and you get on here and rant and rave about
>your little QRP rigs like you are so superior.

wasn't interested in contributing or belonging to the group in the first time.

The issue is moot (spelled correctly this time). RIP

dit dit
: Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com
: EMPS QS0s=1 STATES(w/c)=1/0 DX=0

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [959] Please check
Message-ID: <199610031740.SAA15536@mail.enterprise.net>

I have spent all this afternoon redoing my web pages to make them easier to use and hopefully they all work (they seem to here!). You would be doing me a great favour if you would take a look and let me know of any problems.

Many thanks.

--

Frank G3YCC (G QRP 042)
QRP Web Page:
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: herr@ridgecrest.ca.us (Michael Herr)
Subject: [1003] QRPp
Message-ID: <v01530503ae7b08bebf5@[199.120.150.48]>

Just got the QRPp here in Ridgecrest, looks like good one again!
72
Mike WA6ARA

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: RhyneK@aol.com
Subject: [995] Radio Devices
Message-ID: <961003182916_117745620@emout07.mail.aol.com>

Radio Devices will be at the ARRL Convention in Boxboro, MA
on Saturday and Sunday. We will have a supply of Oak Hills Research
QRP Kits including the new OHR100. Come look for us under the tent.

Rhyne,

KA1CX

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [990] Radio Kit Firm
Message-ID: <199610032148.WAA09222@mail.enterprise.net>

Although the firm is in US and therefore is of no direct interest to me, I
feel it fair to point out that most of the many replies I have had about
RADIOKIT seem unsatisfactory and the gist of their messages is 'forget
it!'

However there are a minority of people who have had satisfactory service
from the concern mentioned.

I suppose it's a case of Caveat Emptor (let the buyer beware), but you
make up your own mind.

End of story.

--

Frank G3YCC (G QRP 042)
QRP Web Page:
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Bob Hirsch <bobh@p3.net>
Subject: [999] Reflections by Maxwell
Message-ID: <1.5.4.32.19961003235856.00ac7074@p3.net>

Some months ago, someone on this list was trying to get the book Reflections by Maxwell which had gone out of print.

If you still want it, email me directly, I now have a source.

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: Tim Pettibone <tpettibo@NMSU.Edu>
Subject: [975] Report of FOX Number 1
Message-ID: <199610032013.0AA02432@NMSU.Edu>

Had a really good time. Thanks to all for hanging in there. I know I missed some of you but I really tried to dig you out.

TIME	CALL	RST	NAME	QTH
0101	NQ7X	559	Floyd	AZ
0102	KK6MC	559	Duffey	NM
0105	KI0G	579	Bob	CO
0107	W5TFB	559	Jack	TX
0108	AB6DG	559	John	CA
0110	WB5QYT	559	Tom	NM
0111	AA7OA	579	Dan	OR
0113	KK7BD	559	Dan	AZ
0114	AA0XI	559	Marshall	CO
0116	AA7WT	439	Mal	MT
0118	K1MG	559	Mike	CA
0121	KC7NEV	559	Joe	AZ
0124	W9UQB	559	Mike	AZ
0129	NQ7K	559	Mike	AZ
0132	KQ6AG	549	Dennis	CA
0134	WA7FCU	559	Bob	UT
0136	KI6DS	559	Doug	CA
0138	KI6SN	559	Richard	CA
0141	KK5RO	229	Vernon	OK
0151	K06KA	559	Rob	CA
0154	WA5VQK	559	Tim	TX

0156	AE4IC	119	Bob	NC
0158	AB5UA	559	Clifton	OK
0200	N5ET	449	Bob	TX
0203	WB5QMP	449	Randy	ID
0204	KC5RAS	449	Robert	TX
0208	WA6NAE	449	Dwight	CA
0215	K5UP	339	Glen	OK (almost ESP!)
0219	KD6ZMJ	449	John	CA
0222	N6WG	449	Bob	CA
0237	W6BAB	569	Harvey	CA (He's really N6MM)
0241	W0CH/mobile	559	David	MN
0243	KU7Y	559	Ron	NV
0245	AA0XZ	449	Greg	MO
0246	W8DN	229	Mike	OH
0248	AE9K	559	Brian	WI
0255	AK1P	559	Paul	CA

Wow! As you can see, you all kept me busy, busy! I hope I have all of the information OK. I believe I copied all of the QRP-L numbers ok (except when a couple of you insisted on giving me power level. My QRP-L # of 73 did cause some confusion. I should have prefaced it with "NR" but didn't come up with that until it was over. Thank you all for your help. I hope I worked you and, if I didn't, I'll be looking for you later.

Tim AB5OU

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996
 From: Gary Surrency <gsurrenc@ix.netcom.com>
 Subject: [957] Resonant Speakers, Thanks
 Message-ID: <3253F6EC.1EE7@ix.netcom.com>

Gang,

I would like to thank all of you that took the time to post your experiences with the resonant speaker. Seems there has been a lot of interest on this topic in the past, and a lot of you are still using them.

What a great group!

Also, a hearty welcome to the new list subscribers. Glad to have more members to the list that is free (nearly) of spammers and flammers. Let's keep it that way!

Still trimming pipes and glueing speakers, ;-)

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

[illegible]

YES ITS THAT TIME AGAIN! HOSSTRADER FLEA THIS FRIDAY & SATURDAY

AT THE ROCHESTER NH FAIRGROUNDS. BIGGEST IN NEW ENGLAND

(SAME WEEKEND AS BOXBOROUGH MA ARRL CONVENT. - QRP FORUMS HELD ON SUN 10/6)

DIRECTIONS: TAKE RT 125 TO RT 16 AND GO NORTH AND TAKE EXIT 13

Head East (take a right at end of Exit) and follow the guy in front of you or take your 2nd or 3rd right and follow the fence to the main gate. We will monitor 144.440 & 144.480 direct and hope to see everyone at least once on your trip. You can find a bunch of us near the Covered Buildings at the far end of the fence. We usually find a place near the 2nd Gate which they only use for Emergency purposes. 73's - Happy Hunting - Good Luck Bill AE1D

PS The fee is \$20 for early birds and \$5 thereafter - not sure of cut-off time 2 or 3pm ?? Check the Nets. Money goes to SHRINERS BURNS INSTITUTE - Good cause

(This is last years info)

72 Jim..... Rochester bound.....

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: kd1jv@juno.com (STEVEN WEBER)
Subject: [970] Scott Bauer <ke3nv@erols.com>: Address needed
Message-ID: <19960910.095851.5471.9.KD1JV@juno.com>

> I would like to know if any of you folks know the address of the N.H.
>Attorney General. I need it to report " RADIO KIT " to them for mail
>fraud. Yes, Im another one of those lucky guys.

> Thanks in advance for any replies. 72 Scott

You might try addressing it to:

Attorney Generals Office
Concord, NH. zip

That should get it there and good luck :-)
Postmaster Generals office in Concord would also be a good place to go as it deals with the mail, and they take these things very seriously. If a lot you have had this problem, the more complaints they get, the quicker the action will be.

de KD1JV, NH

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996
From: roger@inet.co.za
Subject: [932] Southern Africa calling
Message-ID: <m0v8oDa-000JEQC@testbench.inet.co.za>

I have just had the singular privilege of joining your e-graph group. After digesting a LOT of emails this morning I think (I sit down to do this because the first time is hard work) that I'll aks the lot of you a basic question from this third-world,

behind-the-times, neck of the woods:

What, in your opinion is the best QRP transceiver kit to buy, where do I obtain it, and how much does it cost?

Lastly, as a CW freak, where can I beg/buy/acquire and tenth-hand bug?????

Thanks in advance

30

72 DE ZR6RGK

Roger

Johannesburg South Africa

~~~~~ Less is More ~~~~~

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996

From: ka7you@juno.com

Subject: [996] St. Louis Vertical?

Message-ID: <19961003.130311.2894.4.KA7YOU@juno.com>

HI,

I'm new to the reflector, and I've seen a lot about the St. Louis Vertical antenna, but I missed the original posting. I would sure like to have a copy of it to go along with my file of replies and modifications. I don't need a lot of copies sent to me, so could the originator send me a copy of the posting? Or is there someone who is willing to give me the source?

I'm not very active in QRP or any other HF but I do belong to the NWQRP club, and own a Ten-Tec 515. It is my base rig at home - near Seattle, Wa.

Thanks for the help. I was off the computer for a few days, and I'm trying to work my way through all the mail, HI!,HI!

73,

Rod Johnson KA7YOU

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996

From: Phil Wheeler <pcw12@ix.netcom.com>

Subject: [1006] SuperKeyer III

Message-ID: <32547613.3388@ix.netcom.com>

I'm currently in Sonoma County and had the thought of dropping by Idioim Press and picking up a CMOS Superkey III kit. Alas, I have with me no

info on how to contact them (in Geyserville, I think).

Can anyone provide me with a phone number or (non-POB) address?

I'm planning to attend the Oct NorCal mtg in Livermore on Sunday; if I make it (party the night before!) I will have some (15+) LM-386N-4's to give away -- used in the Sierra mod; I ordered 25..which (as it computed out) was as cheap (oops..economical) as ordering 10.

72..Phil, w7uox

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "Thomas J. Whalen" <whalen@swcp.com>  
Subject: [936] The Fox  
Message-ID: <Pine.SUN.3.91.961003075716.20166A-100000@kitsune.swcp.com>

Hello Fellow Fox Hunters! Tim, you did a great job and at times I wondered how you heard anyone through the big pileup! I was lucky to work you when I did. We are only about 70 miles apart as the rf flies. I noticed at the beginning of the hunt you were strong, and then you just disappeared about a half hour later. Sometimes it doesn't pay to be too close to the fox!.I may put up a dipole today, or maybe a loop for close in work. The vertical will come in handy for tonights fox, he is in WI.If condx. are right I will go out to the mesa and set up with the Argo 509 and my 132' kite supported antenna! 72 Tom WB5QYT QRP-L #640

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "Bob Tellefsen-CNSE97" <Bob\_Tellefsen-CNSE97@email.mot.com>  
Subject: [946] The FOX, The FOX!  
Message-ID: <M1083828.001.pic30.1.961003154314Z.CC-MAIL\*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Great take off for the new FOX season. My first one to be in at the start. Heard Tim, AB5OU in there weakly at first. The stations working him were stronger than he was for a while. His signal got stronger as the evening went on, so called him when signals were about 449 and got him. Way to go, Tim.

Now, on with the show.

72 to all,  
Bob N6WG

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Gary M Diana <gmdiana@kodak.com>  
Subject: [960] The Original NN1G HF QRP CW XCVR  
Message-ID: <199610031751.AA29579@kodaki.kodak.com>

Hello All -

About the "early" NN1G transceivers: what I am referring to here is the two board set, that as Doug KI6DS pointed out started with an article in the QRP Quarterly (QQ).

Bottom line: This probably isn't a good pick for  
(my opinion) a beginner's project.

Now with that said...

Well when a continuation/reprint of the article appeared in QRPP (complete with artwork) there was ALOT of talk about it here on the list. I am not sure how many were built, but there were MANY reports of ideas, mods, QSOs, etc. As I remember, there was another followup article in QQ, which NN1G wrote, that gave part values for converting the rig over to 30, 40, and 80m. I built 3 of these rigs altogether, even got one going on 160m. It was a struggle, but alot was learned about receive filters, bandpass filters, oscillators and in the process I started breaking in a copy of "Solid State Design for the Radio Amateur".

There were mods for the audio amp section, mods for improved matching between some of the functional sections. Even if you didn't make the mods, it made you think.

Yes, there was even a flurry of activity on the list back then about making your own boards, mostly with the toner process. So after you placed an order for the hard-to-get parts, you got the boards made! No silk screen or solder mask, BUT without a silk screen, you are more or less "forced" to work from the article and schematic to build the rig. It took a little longer to build, but then again you learned more about the rig in the process.

What I am trying to say here is that Dave NN1G provided a design that lots of QRPers built and used SUCCESSFULLY! It spurred a lot of discussion and mods. And this was before Small Wonder Labs, the NE40-40, the SWL40, etc (which are all improved/streamlined kits); so you see, he had a following and good reputation way back then!

73 for now.  
- Gary N2JGU  
gmdiana@kodak.com

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "rohre" <rohre@arlut.utexas.edu>  
Subject: [976] Trap dipoles, proportional ants.  
Message-ID: <n1367766479.6339@msmailgw1.arlut.utexas.edu>

As mentioned, the QRP issue of 73 for Oct. '96 also had a trap dipole antenna piece, featuring coax wound traps. This type requires no external high voltage capacitors to tune the trap. (The capacity per foot of coax does the job).

But what if the presented paper does not cover the bands YOU want?

By some of the comments seen on the Inet, the concept of scaling antennas to another band seems far from the ham mind.

Take a trap dipole for 80m: the usual presentation makes such an antenna good for 80m, and the trap blocks off some wire with its high impedance resonance on 40m, such that the remaining wire will resonate on 40m (and near 15m). With appropriate traps, other bands are tuned as well, such as 20m and 10m. Traps shorten the antenna so the active part is between the traps. They may also make up some wire to foreshorten the antenna for lower bands. (Inductive loading)

You can study the ratio of the total wire that is available for 80m and compare that with a "standard" dipole length by formula. You can use reactance charts to determine what the trap does in terms of reactance at for example 40m, which is where the trap would resonate, to decouple the 80m extensions from the central dipole, and so on.

Equipped with the knowledge that the overall dipole is say, half size on the lowest band, you could then choose another group of bands to make a dipole, which would be half size on THAT lowest band, and choose values of L and C in the same ratio as the prototype antenna, but which form a high impedance trap at the frequency of the next higher band you want on that new antenna. There might be some cut and try to get the best combinations because the usual desire is to go to the WARC bands, and many traps and trap dipoles are shown for the harmonically related bands like 80 and 40m, 20 and 10m.

The simple illustration of proportional scaling is that you are given a full scale dipole dimensions for 80m, say 135 feet. If you wanted to go to the next higher band, 40m; you make the dipole half this length (67.5 ft.), and

then cut and try to get the resonance centered where you wish.

You used the proportions of the antenna that was presented, and adapt it to the antenna you want. This works with any antenna design of the common types, at the HF bands. Now scaling from a full size 20M beam to 1.2 G Hz, introduces issues of the size of conductors vs. wavelength, and may not work as well, but the you certainly should never fear at HF to take one antenna design, and find its fundamental ratios, and adapt it to what you need.

A great sense of achievement awaits you for building your own antenna from scratch, putting it up and working a good miles per watt contact. It might be below the thrill of working someone with a rig you built with your own hands, but certainly worth the satisfaction you gain in your abilities, and the saving in money, if you find economical materials that will serve your purposes.

72, Stuart K5KVH    rohre@arlut.utexas.edu

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: bcutter@teal.csn.net (Bob Cutter)  
Subject: [991] TwoFer History  
Message-ID: <199610032203.QAA16728@lynx.csn.net>

The thread on NN1G reminded me of a question I have had about the TwoFer. A 20M one was my mainstay travel and backpack rig for years, I still have it. Two Crystals, 14010 and 14060 with a capacitor that gave me +/- 3KHz. Who or what group developed the design? I believe I bought my two boards by mail from someplace in the NE.

72, Bob KI0G  
QBF?        ZUE

Bob Cutter, .....Glenwood Springs, CO

KI0G

bcutter@teal.csn.net

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: wb2vuo@juno.com (William K Hibbert)  
Subject: [939] wb2vuo: Re: The Inverted-L Antenna  
Message-ID: <19961003.102453.4719.3.wb2vuo@juno.com>

This reply got bounced, so I had to post it to the list. Actually, it might be of "general interest, so read or delete, your choice...

----- Begin forwarded message -----

From: wb2vuo  
Subject: Re: The Inverted-L Antenna  
From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: dannyayers@juno.com (Danny K Ayers)  
Subject: [952] What a great group... of Elmers  
Message-ID: <19961003.113347.8815.1.dannyayers@juno.com>

Hello Everyone,

As a new subscriber to The List whose been "reading the mail" for a few weeks now, I could no longer resist a short post to congratulate all those who participate.

The enthusiasm shown here for fox hunts, QRP Afield, EMPS, etc has convinced me that I'm missing all the fun and MUST get my CW speed back up (which has declined due to neglect ever since test day) and join in.

A lot of talk about Elmers here, and in my opinion as a relatively new ham who has learned a "few" things the hard way, I think the list itself is a great Elmer. Not to replace the one next door, but an excellent supplement. For example, I'm currently building an NE40-40 from a FAR circuit board and my own parts (rounding up the parts is a real hassle...had I been subscribing to the list before I started, I would have known to call NN1G and get it parts and all :-)) ... usual disclaimers)

In short, keep up the good work... and wish me luck getting my 1.5W of slow CW on the air ;-)

73,

Danny AD4Y0

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Steve Ciciora <scicior@uswest.com>  
Subject: [979] where can I get a NN1G rig?  
Message-ID: <Pine.SOL.3.91.961003143748.4701C-100000@sp5-316>

O.K., I've been reading this thread with some interest, can someone tell us where to get a NN1G rig, the good one, not the O.K. one?  
Thanks!



From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: [941] Re: "Benson Bashing?"  
Message-ID: <Pine.SUN.3.90.961003081406.19864D-100000@vortex.sage.dri.edu>

I too have built a SW30.

First time I turned on the power it worked! Not only that,  
but it worked right too!

Good quality board. Parts all there. Good directions. Good  
price. Good service. Help available right here on the internet  
if needed.

Yep, I think Dave's a "keeper", even if his call is NN1G.... :-)

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "Frank G3YCC" <g3ycc@enterprise.net>  
Subject: [954] Re: 30 meter antenna  
Message-ID: <199610031713.SAA12516@mail.enterprise.net>

A loop might be a good idea. Calculate from  $1005/\text{freq.}$   
Regards.

--

Frank G3YCC (G QRP 042)  
QRP Web Page:  
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "Thomas J. Whalen" <whalen@swcp.com>  
Subject: [1000] Re: Balanced line and its coax near-equivalent  
Message-ID: <Pine.SUN.3.91.961003181549.9228A-100000@kitsune.swcp.com>

On Thu, 3 Oct 1996, Pete Soper wrote:

> Hello,  
>  
> I recently made a batch of balanced line standoffs that  
> have worked out pretty well. To maintain the finest  
> amateur radio tradition, the goal was "cheap, cheap,  
> cheap". I think I met it :-)  
>  
> Take a length of plastic conduit (gray, UV resistant) and  
> drill a row of holes through both sides. One hole will be  
> for a phillips screw driver and the other for a wood screw.  
> Next cut the length of the tube along the line of the set  
> of screwdriver holes. Then slice up the pipe between each  
> pair of holes. Each slice can then be screwed into a wooden  
> post or other available mounting point and the ladder line  
> is slipped in between the cut ends. Spotted this design in  
> the Wireman book. With an 8 foot length of conduit I made  
> over a hundred standoffs. If you are paranoid about the  
> little bit of metal in the screw you could perhaps use glue  
> and a golf tee instead.  
>  
> One down side. If you use a circular saw to do the slicing,  
> plan on dealing with amazing quantities of plastic "dust".  
> The gripping power of the cut ends is a function of how  
> wide the blade is to make that cut so I used a sabre saw for  
> this.  
>  
> Speaking of using an outside balun and short run of coax,  
> I'm working on a "variable length balanced line tuner" (VLBLT)  
> based on Cecil Moore's invention (Cecil is W6RCA). The idea is  
> to switch in pieces of balanced line with lengths that go up  
> by powers of two ahead of the balun to bring a nearly resistive  
> load to it where a variable capacitor can then tweak the load  
> to a non-reactive value convenient for the balun. The powers of  
> two is nice because you can get any of a number of lengths  
> within a range with a minimum of lines to switch and automate  
> this with binary coding. I've found that even using manual  
> methods I can arrange "convenient" balanced line run lengths  
> up to a balun such that the impedance on the other end of  
> the coax is very close to a 50 ohm resistive load. A few hours  
> with a noise bridge or the like can really open your eyes to  
> the importance of feedline length with nonresonant antennas.  
> But I digress :-)  
>  
> I designed the tuner around 300 ohm ladder line, which has  
> wire spacing that matches up very well with the geometry of  
> the relays being used. I'm hoping to maintain a reasonably  
> balanced path through the relays. However when I tried to get

> more ladder line I found that the supply has dried up. I  
> contacted 10-12 vendors in the USA and got the same story from  
> each: the factory that made this has stopped production. Most  
> said they didn't expect to ever have it again while a couple  
> were trying to arrange production by an alternate source.  
>  
> Have any of you managed to buy this since July in the USA?  
> I'm not talking about twinlead or tubular line but window  
> type line around .4 inches wide, just like a scaled down  
> version of the familiar "450 ohm" ladder line.  
>  
> I wonder how I could measure the "balance" of the balanced  
> line coming out of my VLBLT to check for any negative  
> effects created by the path through the relays? The two  
> effects I would expect would be change in impedance and  
> (increased) radiation of RF and I should be able to do  
> simple measurements of these. But have I got this right?  
>  
> But speaking of tubular 300 ohm line, this is mentioned in the  
> Amateur literature but seems to have also vanished some time  
> ago. It is said to be much more resistant to the effects of  
> moisture than twinlead type balanced line. I wonder how it  
> compares to ladder line in this respect? Have any of you had  
> direct experience with this or have you seen it for sale in  
> the USA or England? By tubular I mean the wires pass along  
> either side of a hollow tube rather than flat strip-like  
> insulation. Also, I would imagine that tubular line would  
> resist the "twist every few feet" trick many recommend?  
>  
> As for hardline as a balanced line substitute, at HF  
> frequencies Dean Straw's program "TL" shows negligible loss  
> with this for reasonable lengths, even with pretty high SWRs  
> (on the order of .2-.4db per 100'). Hurricane Fran rearranged the  
> scenery where I live but the one silver lining is the huge  
> quantity of replaced CATV 1/2" hardline left along the  
> streets. I for one have been helping to make the area  
> beautiful once again! One question: is the foam dielectric  
> in hardline impervious to moisture?  
>  
> I just subscribed to this reflector recently. Some great  
> info here, and the "digest mode" is wonderful.  
>  
> Regards,  
> Pete  
> KS4XG  
>

Great article Pete! I used plastic coat hangers years ago. Cut em up in  
about 1.5 in. sections.73 Tom WB5QYT

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: wb2vuo@juno.com (William K Hibbert)  
Subject: [937] Re: Converting cheap 49Mhz rigs to 6 meters  
Message-ID: <19961003.101336.4719.1.wb2vuo@juno.com>

There are 3 different "types" of inexpensive 49 MHz radios, Xtal-controlled AM (with superregenerative RX), Xtal-controlled NBFM and synthesized NBFM. The latter is the most common out there, and the single-channel FM units fit the middle category.

The cheapest (Archer Space Patrol [Tm]) fit the first, and they are the easiest to convert. The only Xtal needed is the TX Xtal. You can put them anywhere in the 6 Meter band (above 50.1 MHz), but 50.3 MHz to 50.6 MHz would be the best, with 50.4 MHz being the de facto "National AM Frequency"...

The TX Xtals for these units are HC-18 or HC-25 case 5th overtone, series-resonant Xtals, and will run \$7.50 - \$11.00 each, depending on your supplier. The RX just requires retuning, as there is no LO per se. It is also VERY WIDE!!! A typical regen for 6 Meters will "hear" everything within 250 - 500 KHz, so the tuning is not critical at all. Due to the inherent wide-band characteristics, regens do not work with NBFM. A narrow FM signal just sounds like an unmodulated carrier. In addition, regens radiate wide-band noise, sometimes strong enough to cause TVI !!

I converted one of the Space Patrols years ago, and don't even remember where it is now. It worked, I'll say that, but limited would be a good evaluation of it.

And...Considering that the radios run 15 - 50 mW, they are not only QRP, but are QRPpp :) )

Have fun...72/73, Keith, WB2VU0, QRP-L #582  
EMPS Q=4 S=1 DX=0  
Trustee, KB2YTW/B 10 Mtr Beacon (28.2860 MHz  
"In the Depths of the Great Bergen Swamp...FN13ac"

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: kellner@usa.acsys.com (Richard G. Kellner)  
Subject: [998] Re: DDS VFO with AD7008  
Message-ID: <9610032326.AA15792@mtv.acsys.com>

I've been on travel so I might have missed some of this thread. So I apologize in advance if I'm repeating what's already been said.

I tried a 7008 DDS VFO with my Sierra and was pleased with the results. The one feature which was incompatible with QRP/portable operation was the current consumption of ~125ma for the 50 MHz part. Even the 20 MHz part is spec'ed at typical ~80ma.

There are three new DDS chips from Analog Devices, the 9830, 9831, and 9850. I would try the 9831 for a new design, which is a 20 MHz DDS with a typical current consumption at that frequency of ~15 ma. That would make it very attractive for portable use, and much more compatible with the SIERRA design philosophy. I intend to try it, but it will be a while because of my time limitations.

73, Rich W5RXP

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: KB9NQR <kb9nqr@interaccess.com>  
Subject: [968] Re: Distributed Remote Elmers (DREs) (LONG)  
Message-ID: <1.5.4.32.19961003184006.006dd4d0@interaccess.com>

Jeff,

I liked your idea and since I have already introduced myself visa vi "to QRP or not QRP", here is a progress report. The end fed antenna that I am using is up about 20 to 25 feet off the ground and is approx 60 ft long. It tunes up 1.25:1 SWR at 40 m 7100-7150. No QSO's yet. I think my biggest problem right now is timing. Most of the time I have been able to get to the radio is during the week m-f after 9 pm CDT (0200 UTC). There is a lot of noise from foreign broadcast at that time. I get up early to go to work and did hear a QSO on 7110 this morning but had to leave for the office before I could get the callsigns and jump in. Tonight after work I will have some more time to tweek and listen.

Now would you please explain all of the acronyms in your signature?

73, Matt KB9NQR, QRP-L #742

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Roy Boggs <rboggs@PCC-UKY.CAMPUS.MCI.NET>

Subject: [978] RE: First Kit Recommendations

Message-ID: <2.2.32.19960930230339.006c3d0c@pcc-uky.campus.mci.net>

[Jeff Gold wrote:]

>think I have built most of the kits out there. I certainly would  
>NOT recommend the NN1G as a first kit. The older ones sometimes  
>had problems getting the oscillators running and mine was not that  
>great an experience.

Afraid I must jump in and defend ol' Dave's (NN1G) little rigs. Sure, the earlier versions (20mtr) from sources other than Small Wonder Labs might have had problems (and really it is not fair to use the older versions in the comparison - like comparing an old Dodge to a new Ford), but the current single-board SW40 is a sure-fire performer. Unquestionably the best rig "for the money" (\$52 delv'd) on the market. It was my 'first' rig and had no problems whatsoever. I use it almost daily and work whatever I hear with it.

This is not to say the fabulous Norcal 40A is not as Jeff Gold describes...it is a very good rig; but in terms of performance I think it would be splitting hairs to find any appreciable difference between it and the SW40 (i.e. the SW40 is NOT problematic). Not taking sides here or criticizing Jeff's advice, but just wanted to give a little balance to the appraisal. Even factoring in the cost of the case for the SW40 (brings it up to \$85), I can't say that the Norcal is a \$50 better radio since they are so similar. IMHO. Right on with the OHR rigs; very good quality.

72, Roy Boggs KE4KDT  
Prestonsburg, KY

Norcal QRP-ARCI QRP-L ARRL Knightlites  
.....but still not an expert on anything

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996

From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>

Subject: [948] Re: FOX: Hats off to Fox #1

Message-ID: <Pine.A32.3.95.961003090450.55119B-100000@homer28.u.washington.edu>

Up here in Tacoma, Washington, I heard a QRO Op (from where; Atascadero, CA.?) having a QSO with one KC7NEV. Never heard Joe himself (QTH: Peoria, AZ.) so I was listening in on a onesided conversation. Then Joe must have asked the QRO Op if he'd ever considered operating QRP. Cause the next thing I copy is this Op saying he hadn't done that before and then down went his power. Nothing like a convert, eh Joe :) He faded into the noise.

That's how the FOX hunt went as well. I could hear some of you more northerly QRP Ops with "oh" calls and a few

sixes and sevens. Could tell there was a pile up at times but couldn't discern individual calls. I heard no FOX this time around.

I did hear an "HR..." calling CQ at 01:27 UTC as I tuned just below 7.040 MHz. That in itself created quite a pile up. There were a lot of QRO Ops on the air around 7.040 MHz which is pretty normal in the northwest for this time of day.

Enjoyed the challenge!  
Stephen Lee, AB7HI  
slee@u.washington.edu

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "J. Skalski" <jskalski@acsu.buffalo.edu>  
Subject: [988] Re: foxhunt  
Message-ID: <Pine.GS0.3.93.961003172629.8188A-1000000@destrier.acsu.buffalo.edu>

Got skunked by the fox. I heard Tim work stations in CA AZ TX UT .. Tim was weak hear in WNY and I only heard him a few times. I called him a few times. I heard the HR1, digital station and others. I heard a 559 station calling CQ 1kc up. It was a station in AR running a 49er at 400mw... got that one .  
Did anyone in NY work the fox?

73,

Jim N2GO  
The Buffalo QRP CONNECTION  
ARCI #9013 QRP-L #381  
jskalski@acsu.Buffalo.EDU

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: bob.roach@sourcebbs.com (BOB ROACH)  
Subject: [942] RE: Glowbugs doesn't want  
Message-ID: <8C98021.0001045389.uuout@sourcebbs.com>

BM>-I have tried TWICE to subscribe to the Glowbugs list in the last  
>-week, but so far, NADA. No confirmation, no "welcome" message, no  
>-list traffic, nothing.

Hey Bill,

Tell me about it. I have been trying for a couple of weeks now.(lost count of the number of tries) It is really strange because I have no trouble at all subscribing to other reflectors, I just did another one today. If you find the magic password PLEASE let me know.

73 de KE4QOK  
Bob

\* SLMR 2.1a \* So she says, "It's me or the radio". Back to you OM.

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Jeffrey Herman <jherman@hawaii.edu>  
Subject: [964] RE: Glowbugs doesn't want  
Message-ID: <Pine.GS0.3.93.961003080741.1800C-100000@uhunix5>

On Tue, 1 Oct 1996, BOB ROACH wrote:

> BM>-I have tried TWICE to subscribe to the Glowbugs list in the last  
> >-week, but so far, NADA. No confirmation, no "welcome" message, no  
> >-list traffic, nothing.  
> Hey Bill,  
> Tell me about it. I have been trying for a couple of weeks now.(lost  
> count of the number of tries) It is really strange because I have no  
> trouble at all subscribing to other reflectors, I just did another one  
> today. If you find the magic password PLEASE let me know.

If you're having troubles try contacting the listowner at:  
conard@ntech.campus.mci.net  
and he should be able to help you out.

I was the first owner of that list but promptly turned it over to  
Conard (like one day after Phil Porch set it up on his machine!).

7.3W,  
Jeff KH2PZ / KH6

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
Subject: [949] Re: Hello from Japan  
Message-ID: <200007030139.UAA06730@multi2.pic.net>



Hello Satoshi-san!

I am posting part of this response to the QRP list because I think that some of the items may be of interest to other QRPers.

> Hello Micheal!  
>  
> Thank you very much for FB e-mail.  
>

Thank you!

> I will report that on Mailing list.but I write briefly here.  
> It is pity that QRP is not popular in Japan.Only a few hams try it.  
> But QRPers are very hot. And A few hams make radios.Because  
> we can buy a lot of rigs and its are cheaper than self-making rig.

QRPers here are small in number, but very eager. Many QRPers are active on the radio bands. Also, many QRPers make their own radios. There are several USA companies which make kits for building radios. Kits have all the components to build a radio, including circuit boards, and the designs are quite reliable.

>  
> now a day,PCs are very very popular.youngs who interested in electronics  
> do PC,so ham it self is not popular today.  
>

This is also true here, but WE know how much more fun ham radio is.

>  
> on 7040kHz,we are afflicted with strong jamming signal what are from  
> unknown "F" CW station.then In Japan,We can not use 7040kHz.  
>

We hear the same "F" station here, but it is not so strong. We have wondered where it comes from. If we knew, it would be a helpful beacon to check propagation. Listen for us around 7043 kHz. I heard several JA stations last night near 7000 kHz but could not contact them.

Do you belong to a QRP club in Tokyo? We have a good QRP club here in California called the NorCal QRP club, and many members also subscribe to this QRP-L Internet list. Perhaps our club could plan some on-air activities with your club?

> 72 es good QRP DXing.

>  
> ...\_.\_ . . .  
> tomo@grace.c.dendai.ac.jp  
> Satoshi Kouya JQ10CR  
> Tokyo Denki University Graduate School  
> tel. +81-3-5280-3281 ext.2340(by tone)

72 and 73,

Michael Gipe, K1MG

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Ed Tanton N4XY <n4xy@avana.net>  
Subject: [958] Re: Hello from Japan  
Message-ID: <3253EA3C.6D16@avana.net>

This is \*\*GREAT\*\* Mike!!! I wanted to send him a reply similar to yours and just didn't. Your conversation is just terrific. Whatever people want to say about ham radio these days, QRP is where the fun AND the action is. The enthusiasm and pride on the QRP-L 'freqs' is wonderful! I just had to comment.  
73

--

Ed Tanton N4XY (770) 579-3933 Voice / MBX / FAX Marietta,  
GA  
QRP-ARC GQRP OKQRP QRP-L Adventure RC ARRL AMSAT NCDXA INDXA  
email: n4xy@avana.net  
URL: Coming Soon

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "Michael Connor" <mikec@primenet.com>  
Subject: [1005] Re: Hot dang, it works! (long)  
Message-ID: <199610040225.TAA20678@primenet.com>

Mike,

No, you're not too worked up over just one contact. You are in the same position today that I was in a little over a year ago. I know how you feel. Great, isn't it? Thanks for sharing your excitement with the rest of us. I for one love to hear this kind of stuff.:-)  
Hope to work you on 30.:-) (I need WA.)

Cheers,  
Mike  
NQ7K

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: [918] Re: I got the FOX!!  
Message-ID: <Pine.SUN.3.90.961002211144.19237D-100000@vortex.sage.dri.edu>

One fox heard and worked here in NV.

Tim had a very loud sig. A real 559. He was so loud  
that I kept going past him thinking he was just some  
QRO station!

Heard him work a 6 but didn't hear the 6 here. (Is that  
really too many heards in one sentence?)

I even remembered my qrp-1 number right!

Good job Tim!

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "Mike Rhodes" <weightdn@bright.net>  
Subject: [994] Re: I got the FOX!!  
Message-ID: <199610032229.SAA12945@brutus.bright.net>

Well, it took a while but I finally got thru too. Heard Tim right off the  
bat (and the pileup!). Thought a 5A had come up on 40cw! His signal would  
come up to a little above the noise and then back into it again. After  
trying for a bit and deciding that I probably wouldn't be able to copy if  
he did answer me, I decided to bet on the propagation improving. Not a good  
bet! BTW, the absolute best copy on you Tim was while I was upstairs in the  
sandbox. Beautiful Q5 copy thru the floor but by the time I got back down  
to the rig you were back down in the mud. Finally got thru at 0247 and  
condx were no better, if not worse, than at 0100.

Without a doubt the best signal I heard was from a KC5 (maybe RAS ?? can't remember) by the name of Bob in TX at around 0200. He was an S5 on my very stingy Icom 745. What are you running Bob? I gave Tim a 429 and the noise was moving the needle more than he was!

Fun?? You bet and bring on the next victim, er FOX.

Icom 745 @ 4W to Force 12 C4 at 60'

72/73 de Mike / W8DN  
weightdn@bright.net

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: JEVERHART@cayman.vf.mmc.com  
Subject: [931] Re: Last nite's fox  
Message-ID: <961003092353.2021f8f6@carib.vf.mmc.com>

Gang,

You can't work 'em if you can't hear 'em.

I listened for AB50U last nite from about 0100 to 0130 Z and for several other periods until 0300 with no joy. In fact, I heard only one station ( an '8,' I think) calling him.

Those farther west report jam-ups on 7040! Only a few QSO's heard herein NJ, all QRO. They included stations from WI, CA, AR and OH, all with reasonable signals. Did anyone east of the Mississippi other than Bob, AE4IC, hear or work Tim?

Don't tell me the foxhunt Northeast curse is upon us again!

72/73,

Joe E., N2CX

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>  
Subject: [965] Re: Miniature CW Paddles  
Message-ID: <9610031826.AA28343@wizard.ucs.sfu.ca>

Hi Paul,

I am not familiar with the Galbraith paddles, but you might also want to consider the G4ZPY mini paddles (I can't remember the model name) I

have a pair that I bought from someone locally and I am quite impressed.

The feel is not as good as my WBL's but with proper adjustment they work very well. I'm not sure how much they go for new, I bought mine for \$100 used, but in my view they are worth the price.

cheers, Paul  
ve7cqk  
email: paul1@wizard.ucs.sfu.ca

>  
> I have been considering the purchase of the Galbraith iambic paddle from  
> New Zealand. Are there any other compact iambic paddles available for  
> portable QRP use?  
>  
> -Paul  
> >  
>  
>

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>  
Subject: [993] Re: Mosfet PAs  
Message-ID: <Roam.3.0.844380948.32201.myers@bigboy>

> Thanks to those who took a look at my web site for the 'Protect that  
> Mosfet PA' file. Some could find it others not, so I am a bit puzzled. I  
> will sort it out, it is probably a typo somewhere. However, here is the  
> main info for those who need it.  
> To prevent blowing the Mosfet PA, simply add a 10 ohm resistor in series  
> with a zener diode from gate to earth, with the positive of the zener to  
> earth. The value of the zener is chosen depending on the maximum gate  
> voltage of the FET, which you can find out from data sheets, catalogues  
> etc, then select the zener with a slightly less voltage. For example, if  
> the max voltage of the FET is 15v, choose a zener of say 13v 400mw. From  
> memory this example would be OK for the VN46AF. For our friend the VN10KM,  
> a 4.7v 400mw will do nicely.

You could try the MTP3055E, which has an integral Zener rated around 60V,  
it inherently protects the FET from excessive Vds. I can get 10-20W  
out of an MTP3055E at 14MHz easily.

Dana KK6JQ  
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
Subject: [1002] Re: Multi-band Inverted-L: A theoretical look  
Message-ID: <Pine.SOL.3.94.961003210149.14721E-100000@utkux4.utcc.utk.edu>

On Thu, 3 Oct 1996, William K Hibbert wrote:

> The Inverted-L antenna can be a winner, and will fit in many lots that a  
> dipole won't. One of the possibilities with the Inverted-L is making it  
> a multi-band antenna for the lower end of the HF spectrum, and add 160  
> Meters to it at the same time.  
> A good ground would be needed, but what I used on my 160 Meter Inverted-L  
> was a pair of 1/4-wave elevated counterpoise wires, wrapped around the  
> house about 3 feet up. It worked better than a round stake and buried  
> wire radial system I used to use. If you didn't want, or couldn't use  
> 160 Meters, the overall length could be cut in half, and run it on 80, 40  
> and 20 Meters in the same fashion...

>  
> This is a theoretical view, and if any one can model it, I would be  
> interested in seeing the results...

>  
Although there is or has been some discussion trying to distinguish a  
counterpoise from a ground plane, the distinction becomes blurred with  
elevated ground planes, as have been recommended in some of the recent  
literature. The effectiveness of buried ground planes is limited by the  
ground penetration of RF that depends upon one's local soils and, of  
course, the frequency. In the present case, wrapping the house with the  
"radials" will likely be pretty good as an elevated GP/counterpoise, but  
virtually impossible to model except by the individual whose GP it is,  
since the radials interact with lots of stuff in the house, telephone and  
electrical wiring, for example.

Inverted Ls have been around a long time and are well documented. Since  
the current flow is highest at the feed point, most of the current is in  
the vertical section producing a mostly vertically polarized signal.  
However, some current flows in the upper section, and some horizontally  
polarized radiation occurs. If the antenna is used on higher bands, then  
the ratio of vertical to horizontal current changes, as in multiple  
quarter wavelength antennas, there are multiple current nodes. This is  
not bad, since at 20 and up, with a 40 foot tower, the horizontal  
radiation angle decreases to one that does quite useful work in the dx  
angle region.

Many of the seemingly random wire antennas that folks start out near the  
ground, run up over a tree branch and then extend to some other tree

branch are really inverted Ls with somewhat unanalyzable ground conditions. Ls also appear to work a little better with poor ground radial systems than regular verticals, perhaps because of the horizontal section. But a good ground plane system is recommended.

Distinguish the inverted L from a T, which is really a form of capacity hat vertical: if the T is symmetrical, then its horizontal fields cancel and only the vertical element radiations, even though the T-top is needed to bring the antenna to resonance.

Hope these notes are useful.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>  
Subject: [983] Re: NN1G Kits  
Message-ID: <1.5.4.16.19961003132214.3c878852@telis.org>

George, I think the rig that you are thinking of from Radio Kit was the Rick Littlefield rig that was in Ham Radio. I too bought the same kit, (that is a LONNNNNG story), and it was not the NN1G design. In fact, I think that Ham Radio was out of business by the time that Dave's design came about. The Radio Kit and the NN1G are not the same radio.

At 03:07 PM 10/3/96 -0500, you wrote:

>

>

>On Wed, 2 Oct 1996, Doug Hendricks wrote:

>

>> Ok, how about a little historical perspective on NN1G kits.

>...

>

> RADIO KITS sold a kit for the NN1G rig early on, too. I bought one at  
>Dayton after operating Dave's rig from the QRPARCI suite and being blown  
>away by the receiver. (I think that was the year I awarded the very  
>rare, WAQRPDHS Certificat: Worked All QRP Dayton Hospitality Suites. Or,  
>was it WADQRPDS?) It also had red and green wheat-grain LEDs which  
>weren't in most other (any?) versions. There were also articles in Ham  
>Radio magazine and 73 which belong to this history.

>

>geo/w9zsj

>  
>  
>

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Richard Wilkerson <richqrp@pacbell.net>  
Subject: [938] Re: October QRP Quarterly  
Message-ID: <325368A5.330C@pacbell.net>

William McFadden wrote:

>  
> I saw the table of contents for the October QRP Quarterly on the QRP ARCI  
> Web Page yesterday, and realized I haven't received my issue yet. Upon  
> reaching home I verified that my membership is up to date.  
>  
> Should I have received the October issue yet? (In other words, has anyone  
> else received their copy yet?)  
>  
> 72,  
>  
> Eric  
>  
> --  
>  
> W. Eric McFadden WD8RIF  
> wmcfadde@ace.cs.ohiou.edu  
> <http://ouvaxa.cats.ohiou.edu/~mcfadden>Yes my Issue came yesterday...rich  
wd6fdd

From owner-qrp-l@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: "Robert H. O'Neil" <tial2o3@ix.netcom.com>  
Subject: [922] Re: QRP-L digest 501  
Message-ID: <32535B75.150C@ix.netcom.com>

ok here are two questions for the group. I am new to amateur radio and  
to qrp in particular. I purchased and built a OHR spint 40 meter  
tranciever and would like to know how it compares to other kits for qrp.  
also what are the differences to the newer OHR kits. I havent yet gone  
online with this since I havent gotten the code portion of my rating  
completed. I am going to be taking this test soon and would like to know  
what to expect when I use the rig. also is the OHR keyer kit able to be  
used on this tranciever?  
the second question is about antennas. I have a shorty all bander dipole



and a small lot to put it on. how well does this perform, can I shorten it at all...seems I saw some notes to that effect, and lastly what is the effect of replacing the twin lead with coax and using a matching transformer at the dipole feed point. I have seen these transformers packaged for dipoles and wonder why I cannot replace my ladder line lead in with good coax and a transformer. I am using this as an inverted V with the ends 7 feet above the ground and with the inclusive angle of 128 degrees. I also am interested in the radiation pattern this will produce.

any other useful suggestions to get going would also be appreciated.

--

-----  
Robert H. O'Neil   Stanford Synchrotron Radiation Laboratory  
                    Stanford Linear Accelerator Center  
-----

-Quote of the day:

The most beautiful experience we can have is the mysterious.  
It is the fundamental emotion which stands at the cradle of  
true art and true science.  
--Albert Einstein

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>  
Subject: [980] Re: Report of FOX Number 1  
Message-ID: <9610032048.AA29438@wizard.ucs.sfu.ca>

Hi Tim,

Very very nicely done!!! I got home 15 minutes before you shut down, and could barely copy you above some s5 local qrn. Maybe next time.

cheers, Paul  
ve7cqq  
email: paul1@wizard.ucs.sfu.ca

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: George Gingell <k3tks@u1.abs.net>

Subject: [985] RE: Resonant Speaker for CW (long)  
Message-ID: <Pine.BSI.3.93.961003170918.5192G-100000@u1.abs.net>

Gary and Others,

Gary Mentioned this Excellent reference source:

Several articles appeared in the 13th edition of Hints and Kinks for the Radio Amateur, copy. 1992 by the ARRL, pages 9-16, 9-17.

I had my version of the Resonant CW Filter/Speaker published in the July 1993 Issue of The QRP Quarterly Journal on page 6 under the title of The "QRP Cannon", A Resonant Speaker for CW Operation.

It is really quite simple to construct and can actually be made from a variety of materials commonly found around that house. I have made versions with Empty Push-Up Deoderant containers and PVC pipe among other things.

A "Reprint Follows" : (Sorry no Pictures)

This speaker is my version of a Resonant Speaker for CW listening. The idea was suggested to me by Wally Millard, K4JVT (SK), based on an article origionally published years aago in QST.

It's constructed out of 2" PVC pipe and fittings, so the materials are easy to come by. The tuning plug is made out of a 1-1/2" length of broom handle (1" dia. dowel) with four 1/4" deep slots sawn the length of the dowel. Each of these slots is fitted with a 3/4" X 1-1/2" piece of sheet aluminum (Preferred) or printed circuit board material.

The PVC plug has a 1/8" hole drilled in its end to pass the speaker cord out of the assembly. The 2" speaker rim is slightly larger than the PVC threads and will need to be ground and filed slightly so that it may be screwed into the adapter. When assembling the speaker, be sure to include a strain relief knot in the speaker cord between the speaker and the PVC plug.

I wound a loop of #6 wire around the length of PVC pipe and used the protuding ends to fashion a pair of mounting feet. The wire stands the speaker at one end ao the nickname "QRP Cannon" is self-evident when you view the finished product.

To use the QRP Cannon, simply adjust the plug assembly in or out of the barrel to set teh peak response frequency. I've chosen 750 Hz, but there is no reason you couldn't select your own favorite. You'll need a longer pipe, of course, if you prefer a pitch much below the one I've chosen. This is a narrow filter and really cleans up the QRM!

Materials used:

1 piece 2" Dia. PVC pipe 5-1/4" long.  
1 each 2" PVC Adapter (Has threads on one end and mates with 2" PVC pipe).  
1 each 2" PVC plug (Screw threads match PVC adapter. Used to cap off end of pipe).  
1 each 2" Speaker  
1 piece of 2 conductor cable and matching plug. I used one with a mini stereo plug so that I could use it with rigs like NC-40A and others that use cheap stereo headsets. (Cord can be salvaged from one).  
1 piece of Broom handle (1" dowel) approx 1-1/2" in length.  
1 piece of #6 Insulated wire (Ground wire) about 12-15" long.  
4 pieces of aluminum or Brass 3/4" X 1-1/2" (Brass from hobby shop).  
Or some scraps of Tin Can. (Lid of #10 Can of Tomatoes).

If anyone can't figure it out without a blueprint/sketch, drop me a note with a S.A.S.E. and I will make you a copy of the article.

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@abs.net  
Maryland Milliwatt Club QRP Reference Library, (301)572-6789

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Jeffrey Herman <jherman@hawaii.edu>  
Subject: [966] Re: Resonant Speakers, Thanks  
Message-ID: <Pine.GS0.3.93.961003081943.1800E-100000@uhunix5>

There was a long running thread regarding resonant speakers over on the BoatAnchors list about a year ago; the major contributor to that series was someone who builds pipe-organs - boy, he was an encyclopedia of knowledge of the science of sound. I thought I saved that series but can't find it right now - too many hidden files! But, if you can gain access to the BA archives all the posts will be there.

7.3W,  
Jeff KH2ZP / KH6

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Joe Gervais <vole@primenet.com>  
Subject: [950] Re: Southern Africa calling  
Message-ID: <199610031641.JAA28294@primenet.com>

Roger (ZR6RGK) wrote:

>

> What, in your opinion is the best QRP transceiver kit to buy, where  
> do I obtain it, and how much does it cost?

Whoa! Broad question. Can you narrow it down a bit? What are you looking for in a QRP kit? Size vs weight vs cost vs current draw, single band vs multiband, high performance vs a fun little curiosity, etc. Do you plan to use it portable? Backpacking maybe? Or mainly in the shack? What level of building skill would you be comfortable with?

Yes, to quote Monty Python, "NOBODY expects the Spanish Inquisition!" :-) But you'd probably zero in on the QRP kit of your dreams much faster if you can narrow it down a bit.

Welcome to the List!

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [969] Re: this Saturday  
Message-ID: <199610031917.TAA21193@chuck.dallas.sgi.com>

Mike,

Hey, I don't have patience that's why I go so fast. :-)

Sorry, didn't mean to sound like a Scrooge. Just sensitive with the issue of Brian Carling thingy. :-)

See you guys on Saturday. I should be in town every Saturday for the dweeb meeting on the first of each month. Phyllis knows not to schedule at that time, vacation or other. :-) Train 'em early.

dit dit

: Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com  
: EMPS QS0s=1 STATES(w/c)=1/0 DX=0

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: ka7you@juno.com  
Subject: [997] Re: to QRP or not QRP?  
Message-ID: <19961003.130311.2894.5.KA7YOU@juno.com>

Matt,

"IT ISN'T SO!" -- There, are you happy?

Many hams have made do with 25-50watts using old Heathkit DX-? series crystal controlled rigs. The difference in power levels is not that much, especially if you have the ability to be a little mobile in frequency, such as a VFO.

Sure it may be a bit more difficult to make the contact at times, but don't let the nay-sayers get you down. You will make contacts and you will become a proficient operator as a result. I would suggest that you join a club, and find a CW operator (Elmer) who can walk you through the first few contacts. This will make things much more enjoyable, and relieve the 'JITTERS'.

Good luck,

Rod Johnson KA7OU

From owner-qrp-1@Lehigh.EDU Thu Oct 3 23:13:08 1996  
From: Bob Patten <n4bp@shadow.net>  
Subject: [951] Re: Whiterook Paddle  
Message-ID: <Pine.SOL.3.91.961003130810.27261F-100000@hyper>

On Thu, 3 Oct 1996, Pete Soper wrote:

> Could you send me the ordering info for  
> this? Sounds like just what I need. Thanks.  
>

Hi Pete, second request to me for info :)

Whiterook Products Company  
309 S. Brookshire Ave.  
Ventura, CA 93003

(805) 339-0702

73,

Bob Patten, N4BP  
n4bp@shadow.net